

IN THE CLAIMS

1. (currently amended) In a motor vehicle with an having at least one air conditioning system (1), whose ducting (6,12,15) that connects a compressor (3), which is attached to the an engine (2) of the motor vehicle with at least one heat exchanger (8,10), which is attached to a body (7) of the motor vehicle body (7), wherein the ducting system (6,9,12,15); running in the engine compartment (31) of the vehicle, has at least one pipe curvature (37-40),

which is determined by the installation geometry in the vehicle space, at least one part of the pipe conduits (6,9,12,15) of the air conditioning system is made of metallic substance and medium for vibration damping is provided to avoid transmission of vibrations from the compressor (3) to the vehicle body (7), the improvements characterized in that at least one pipe conduit (6', 12', 15'), which is connected on one side to the compressor (3) and to a heat exchanger (8, 10), which is attached to the vehicle body (7) on the other, the ducting is made entirely of metallic substance, inclusive of its pipe couplings (42-45) thereof, and has an outside diameter of no more than less than 13 mm.

2. (currently amended) Motor vehicle according to Claim 1, characterized in that in at least one pipe conduit (6', 12', 15'), which is entirely made of metal, at least the ducting has a second curve, one curve being for damping curvature (35, 36) is additionally provided to at least one pipe curvature (37-40), which is and one curve being determined by the installations geometry in of a compartment for the engine compartment.

3. (currently amended) Motor vehicle according to Claim 1, characterized in that ~~one pipe conduit (9', 15')~~, in which a portion of the ducting for throttling of flow of the working medium of the air conditioning system (1) is to be provided in its functioning, is made as a ~~thin pipe conduit (9', 15')~~ with a capillary tube-like ~~small~~ducting has an inside diameter, ~~which is suitable~~small enough for the throttling of the flow.

4. (currently amended) Motor vehicle according to any of the Claim 1, characterized in that ~~the~~a working medium of the air conditioning system ducting is CO₂ (carbon dioxide)CO₂ and, ~~in relation to the~~ ducting is on a pressure side of the compressor (3), ~~the~~and has an outside diameter of its pipe conduits is ~~smaller~~no more than 11 mm on the pressure side and smaller than 13 mm on the suction side.

5. (currently amended) Motor vehicle according to Claim 4, characterized in that ~~an area~~a portion of the CO₂-ducting of the air conditioning system (1), in which ~~a~~for throttling of flow of its working medium CO₂ is to be provided, is made as thin pipe conduits (9', 15') with a capillary tube like ~~the~~ CO₂ has an inside diameter of no more than less than 2 mm and an outside diameter in the range of 2 to 4 mm.

6. (currently amended) Motor vehicle according to Claim 5, characterized in that a filter (53) is added the ducting in flow direction in the ducting before the pipe conduit (9', 15') with capillary tube-like inside diameterportion for the throttling.

7. (currently amended) Motor vehicle according to Claim 1, characterized in that at least one fully metallic pipe conduit (6', 12') of the ducting has an additional pipe coupling (46, 47) at a distance away from its connection couplings (42 - 45) for the compressor (3) and for the heat exchanger (8,10).

8. (currently amended) Motor vehicle according to Claim 1, characterized in that ~~in a~~ pipe conduit (6'), ~~the ducting leadings~~ from the compressor (3) to a heat exchanger (8) on the pressure side of the ducting of the air conditioning system (1), ~~compressor and has an~~ enlargement of cross section (52) is provided for damping the pressure impulses in the working medium flow.

9. (currently amended) Motor vehicle according to Claim 8, characterized in that the enlargement of cross section ~~of the ducting in a pipe conduit, which is intended for damping the pressure impulses,~~ is provided in the form of ~~a muffler-like pipe enlargement.~~

10. (currently amended) Motor vehicle according to Claim 1, characterized in that the pipe conduits (6, 12, 15) of the ducting of the air conditioning system (1), including their pipe couplings (42 - 49) and their sealing elements, are made from metallic substance is diffusion-proof metal.

11. (currently amended) Motor vehicle according to Claim 2, characterized in that ~~one pipe conduit (9', 15')~~, in which a portion of the ducting for throttling of flow of the working medium of the air conditioning system (1) is to be ~~provided in its functioning~~, is made as a thin pipe conduit (9', 15') with a capillary tube-like ~~small~~ ducting has an inside diameter, ~~which is suitable~~ small enough for the throttling of the flow.

12. (currently amended) Motor vehicle according to Claim 3, characterized in that ~~the~~ a working medium of the air conditioning system ducting is CO_2 (carbon dioxide) and, in ~~relation to the~~ ducting is on a pressure side of the compressor (3), ~~the~~ and has an outside diameter of its pipe conduits is ~~smaller~~ no more than 11 mm on the pressure side and smaller than 13 mm on the suction side.

13. (currently amended) Motor vehicle according to Claim 3, characterized in that ~~an area~~ a portion of the CO_2 -ducting of the air conditioning system (1), in which ~~a~~ for throttling of flow of its working medium ~~the~~ CO_2 , is to be provided, is made as thin pipe conduits (9', 15') with a capillary tube like has an inside diameter of no more than less than 2 mm and an outside diameter in the range of 2 to 4 mm.

14. (currently amended) Motor vehicle according to Claim 11, characterized in that ~~at least one~~ fully metallic pipe conduit (6', 12') of the ducting has an additional pipe coupling (46, 47) at a distance away from its ~~connection~~ couplings (42 - 45) for the compressor (3) and for the heat exchanger (8,10).

15. (currently amended) Motor vehicle according to Claim 2, characterized in that at least one fully metallic pipe conduit (6', 12') of the ducting has an additional pipe coupling (46, 47) at a distance away from its connection couplings (42 - 45) for the compressor (3) and for the heat exchanger (8,10).

16. (currently amended) Motor vehicle according to Claim 2, characterized in that in a pipe conduit (6'),the ducting leadings from the compressor (3) to a heat exchanger (8) on the pressure side of the ducting of the air conditioning system (1),compressor and has an enlargement of cross section (52) is provided for damping the pressure impulses in the working medium flow.

17. (currently amended) Motor vehicle according to Claim 3, characterized in that in a pipe conduit (6'),the ducting leadings from the compressor (3) to a heat exchanger (8) on the pressure side of the ducting of the air conditioning system (1),compressor and has an enlargement of cross section (52) is provided for damping the pressure impulses in the working medium flow.